

CLAIMS

1. A method for producing an isobutylene resin powder from a solution containing an isobutylene polymer, comprising the steps of:

(1) adding a surfactant and water to the solution and removing a solvent by heating while stirring the mixture to cause liquid-liquid dispersion; and then

(2) removing a remaining solvent and a remaining monomer by steam stripping to form a resin powder, wherein the steam stripping is performed at a temperature ranging from 150°C to less than 180°C.

2. The method for producing the isobutylene resin powder according to claim 1, wherein the surfactant used in the step (1) is a nonionic surfactant having a cloud point equal to or higher than the azeotropic point of a mixture of the solvent and water.

3. The method for producing the isobutylene resin powder according to claim 1 or 2, wherein the temperature at which the solvent is removed in the step (1) is from 70°C to less than 130°C.

4. The method for producing the isobutylene resin powder according to any one of claims 1 to 3, further comprising a step of:

(3) separating the resin powder by filtration,

centrifugation, or sedimentation from an aqueous resin-powder-containing solution produced in the step (2) and then drying the resulting resin powder, wherein the resin powder is dried with an extruder having a volatile materials evaporating system into pellets.

5. The method for producing the isobutylene resin powder according to any one of claims 1 to 4, wherein the isobutylene polymer is a block copolymer including:

(A) a polymer block mainly containing an isobutylene unit; and

(B) a polymer block mainly containing an aromatic vinyl monomer unit.

6. The method for producing the isobutylene resin powder according to any one of claims 1 to 5, wherein the solvent of the solution containing the isobutylene polymer is a mixed solvent of a primary monohalogenated hydrocarbon having 3 to 8 carbon atoms and/or a secondary monohalogenated hydrocarbon having 3 to 8 carbon atoms and an aliphatic hydrocarbon and/or an aromatic hydrocarbon.